

RG 104, 8KRA-104-84-051

Box 2

Miscellaneous Correspondence
Relating Primarily to Building
Construction Alterations & Inspections,
1935-1937.

12 Surveys - Certification etc

October 23, 1936.

SE-6-3

P. J. Kirchhof Construction Company,
700 Lawrence Street,
Denver, Colorado.

Gentlemen:

Reference is made to certificate dated September 30, 1936,
relative to:

Lines of the building X

Elevations of bottoms of footings

Levels of floors X

Lines and elevations of approaches X

Plat

The certificate is satisfactory and is approved.

Copy of this letter is being forwarded to the construction
engineer.

By direction of the Supervising Engineer.

Very truly yours,

Assistant Superintendent
of Project Management.

CC:CE
CC:DE
CC:Desk 29
CC:OM-FB

PB-SE-6-B

Engineer's Certificate.

James D. Owens

Denver, Colorado,
October 6, 1936.

Supervising Engineer,
Public Buildings Branch,
Procurement Division,
Washington, D.C.

Sir:

In reference to the contract with the Kirchhof Construction Co. for the remodeling and extension of the Denver Mint and in compliance with Paragraph 48 of the Specifications concerning Surveys of the Building by an outside Engineer - herewith is certificate rendered by Mr. Jay W. McCullough, Civil Engineer.

In Mr. McCullough's certificate he reports two variations from the contract plans.

A. Elevation of intercepting gutter at Door B/11 in the west Driveway being at an elevation of 48.30 instead of 48.60 as required.

Concerning this variation, Architectural Drawing 1-5, details section shown on drawing 1-302, failed to indicate contract heights for Vertical Lift door opening, while Section EE, indicated on Drawing 1-401 would seem to govern the elevation for door header. - In order to work out the proper stone joining indicated by shop drawing submitted by the Consolidated Stone & Granite Co. thru the Kirchhof Co., and approved October 18th, 1935, and since the height of this door header was governed by the stone coursing, as mentioned above, and Section EE on Drawing 1-401 - the door lintel beam and stone being in place before the shop drawings for vertical lift door were submitted and the fact that the vertical lift door fabricator required a minimum clearance of 2'1 $\frac{1}{2}$ " above the door lintel for the banking of the vertical lift sections of door and the necessary mechanism for the operation of same, and having only 2'1 $\frac{1}{2}$ " from the head of the door to bottom side of

the first floor slab and it not being practical to raise same, in order to install door and for satisfactory operation, it became necessary to lower the Driveway Grade to elevation 48.42. Then to effect the proper drainage from door sill to intercepting gutter, this grade was sloped from elevation 48.42 to elevation 48.30.

Since the Driveway had to be repaved and grades adjusted for a distance west of approximately 19feet in order to meet properly with the old existing driveway - the lowering of intercepting gutter to elevation 48.30 did not cause any uncomfortable rise in the grades mentioned or effect materially any other adjacent work.

This being true, I recommend that the contractor's work be accepted as found by outside Engineer.

B. The sump drain at the scales on the Cherokee St. entrance was placed at elevation 58.18 for the proper drainage of the adjacent yard areas and to avoid an abrupt drop from the top of the scales to the drain grading - as top of the scale curbing was found to be an elevation of 58.51 instead of 58. as given on the contract plan. In placing the sump drain at 58.18 rendered a more harmonious effect for all conditions entering than that called for by the plans. Therefore I recommend that this grade be accepted in lieu of that required and contractor's work be accepted accordingly.

Very truly yours,
James D. Owens

Construction Engineer.

PB-SE-6-B

James D. Owens

Denver, Colorado,
October 6, 1936.

Supervising Engineer,
Public Buildings Branch,
Procurement Division,
Washington, D.C.

Sir:

In reference to the contract with the Kirchhof Construction Co. for the remodeling and extension of the Denver Mint and in compliance with Paragraph 48 of the Specifications concerning Surveys of the Building by an outside Engineer - herewith is certificate rendered by Mr. Jay W. McCullough, Civil Engineer.

In Mr. McCullough's certificate he reports two variations from the contract plans.

A. Elevation of intercepting gutter at Door B/11 in the west Driveway being at an elevation of 48.50 instead of 48.60 as required.

Concerning this variation, Architectural Drawing 1-5, details section shown on drawing 1-302, failed to indicate contract heights for Vertical Lift door opening, while Section EE, indicated on Drawing 1-401 would seem to govern the elevation for door header.- In order to work out the proper stone joining indicated by shop drawing submitted by the Consolidated Stone & Granite Co. thru the Kirchhof Co., and approved October 18th, 1935, and since the height of this door header was governed by the stone coursing, as mentioned above, and Section EE on Drawing 1-401 - the door lintel beam and stone being in place before the shop drawings for vertical lift door were submitted and the fact that the vertical lift door fabricator required a minimum clearance of 2'1 $\frac{1}{2}$ " above the door lintel for the banking of the vertical lift sections of door and the necessary mechanism for the operation of same, and having only 2'1 $\frac{1}{2}$ " from the head of the door to bottom side of

the first floor slab and it not being practical to raise same, in order to install door and for satisfactory operation, it became necessary to lower the Driveway Grade to elevation 48.42. Then to effect the proper drainage from door sill to intercepting gutter, this grade was sloped from elevation 48.42 to elevation 48.30.

Since the Driveway had to be repaved and grades adjusted for a distance west of approximately 19feet in order to meet properly with the old existing driveway - the lowering of intercepting gutter to elevation 48.30 did not cause any uncomfortable rise in the grades mentioned or effect materially any other adjacent work.

This being true, I recommend that the contractor's work be accepted as found by outside Engineer.

B. The sump drain at the scales on the Cherokee St. entrance was placed at elevation 58.18 for the proper drainage of the adjacent yard areas and to avoid an abrupt drop from the top of the scales to the drain grading - as top of the scale curbing was found to be an elevation of 58.51 instead of 58. as given on the contract plan. In placing the sump drain at 58.18 rendered a more harmonious effect for all conditions entering than that called for by the plans. Therefore I recommend that this grade be accepted in lieu of that required and contractor's work be accepted accordingly.

Very truly yours,
James D. Owens

Construction Engineer.

JAY W. MCCULLOUGH
CIVIL ENGINEER
MAJESTIC BUILDING
DENVER, COLORADO

CERTIFICATE

C O P Y

September 30, 1936

Messrs. F. J. Kirchhof Construction Co.
700 Lawrence Street
Denver, Colorado

Gentlemen: Re: U.S. Mint, alteration and addition, Denver,
Colorado

This is to certify that the lines of the above addition building, the levels of the floors, and the lines and elevations of approaches are in every respect according to the plans; except as noted below:

- (1) Elevation of intercepting gutter at door B/11 is El. 48.80 (plans show 48.60). This was dropped, as well as the sill of door B/11, to accommodate vertical lift door details. Door sill elevation is El. 48.42.
- (2) Top of sump drain at scales on Cherokee Street Entrance placed at El. 58.18 (plans call for 58.00). The elevation on plot plan at scale appears to be incorrect, as I found it to be 58.51. Sump raised to avoid 6" drop from scale.

To the best of my knowledge and belief the above information is correct.

Respectfully submitted,

Jay W. McCullough
Jay W. McCullough

F.J. KIRCHHOF CONSTRUCTION CO.

SEVENTH AND LAWRENCE STREETS

DENVER, COLORADO

TELEPHONE MAIN 5314
August 31, 1936

Procurement Division
Public Works Branch
Treasury Department
Mr. James D. Owens, Constr. Engineer
U.S. Mint Addition
Denver, Colorado.

RE: U. S. MINT

Dear Sir:

We enclose herewith three copies of a certificate prepared by Mr. Jay W. McCullough, giving the levels of floors, and lines and elevations of approaches as required by Paragraph 48 of the specifications.

Yours very truly,

F. J. KIRCHHOF CONSTRUCTION CO.

GBF/vm

By G.B. Palsom Jr.

DENVER, COLORADO., MINT.



TREASURY DEPARTMENT

WASHINGTON

PROCUREMENT DIVISION
PUBLIC BUILDINGS BRANCH

IN REPLYING QUOTE THE ABOVE SUBJECT, BUILDING, AND THESE LETTERS PB-SE-6-B

October 7, 1936.

Construction Engineer Owens,
U. S. Mint,
Denver, Colorado.

Sir:

Special attention is directed to paragraph 621, Section VI, of the Manual for Construction Engineers, which requires that the certificates of elevations, lines, and grades which the contractor is required to furnish shall be forwarded by the Construction Engineer immediately upon completion of that portion of the work covered by the certificates.

Failure to forward these certificates at the proper time has in many instances resulted in delaying settlement of contracts, and you are instructed to require the contractor to furnish them (including the monument plat where required) immediately on completion of the portions of the work to which they relate, and to forward them promptly to this office with your indorsement or letter of transmittal.

You are also instructed to advise this office immediately whether any of these certificates (or plat) have been already submitted in connection with the above-mentioned contract, giving the dates of transmittal.

A copy of this letter is being sent to the District Engineer.
By direction of the Supervising Engineer:

Very truly yours,

R.H.Griffith
Administrative Assistant to
the Supervising Engineer.

AAA

DENVER, COLO., MINT.

March 23, 1936.

SE-6-B

F. J. Kirchhof Construction Co.,
Seventh & Lawrence Streets,
Denver, Colorado.

Gentlemen:

Reference is made to certificate dated February 25, 1936 relative to the following elevations:

Basement vault floor
Sub-basement vault floor
Top of grillage beams
Elevator sill at corridor from present entrance to
basement vault floor
Floor of coining room

The certificate is satisfactory and is approved.

A copy of this letter is being forwarded to the
Construction Engineer.

By direction of the Supervising Engineer.

Very truly yours,

Assistant Superintendent
of Project Management.

CC:CE
CC:DE
CC:Desk 29

sb

Surveys-

Denver, Colo. U.S. Mint Addition,

PW-SE-

Owens,
U.S. Mint, Denver,

Denver, Colo.
Feb. 18th-, 56

Supervising Engineer,
Public Works Branch,
Procurement Division,
Washington, D.C.

Sir:-

In reference to the contract with the F.J. Kirchoff Const. Co., for the Remodeling of the U.S. Mint, Denver, and in compliance with instructions contained in your letter of Dec. 16 th- 1935 to forward revised certificate from the outside Engineer to cover the one he rendered on Nov. 19th- 35 relative to the ~~bottoms~~ elevations of bottoms of certain footing of the New Extention to the Mint.

Attached herewith is the revised certificate requested. Also one dated Feb. 11-36 certifying as to the wall lines and column ~~extents~~ at the basement level. Apparently the symbols refered to in his certificate, refer to a plan or diagram he expects to render at the expiration of the job.

Very truly Yours,

James D. Owens,

Construction Engineer,

STRUCTURAL DESIGNS FOR
BRIDGES, BUILDINGS, PUBLIC
WORKS AND MISCELLANEOUS
STRUCTURES . . . REPORTS

JAY W. McCULLOUGH

CIVIL ENGINEER
MAJESTIC BUILDING

MUNICIPAL PUBLIC IMPROVEMENTS,
STREETS, WATER WORKS, SEWERS
AND SEWAGE DISPOSAL, LABORATORY
ANALYSES OF WATER AND SEWAGE

DENVER, COLORADO

February 11, 1936

F. J. Kirchhof Construction Co
7th & Lawrence Streets
Denver, Colorado

Re: U. S. Mint Extension and Remodelling, Denver, Colo

Gentlemen:

This is to certify that to the best
of my knowledge and belief, (a) the basement
wall lines and (b) the stone wall lines below
the first floor and (c) the column center lines
are as shown and are in every respect according
to the plans.

Respectfully submitted,

Jay W. McCullough
Jay W. McCullough

JWW:r

DENVER, COLO., MINT.

March 4, 1936.

SN-6-B

F. J. Kirchhof Construction Co.,
Seventh and Lawrence Streets,
Denver, Colorado.

Gentlemen:

Reference is made to certificate dated Feb. 11, 1936
relative to:

Lines of the building _____
Elevations of bottoms of footings _____
Levels of floors _____
Lines and elevations of approaches _____

The certificate is satisfactory and is approved.

Copy of this letter is being forwarded to the
construction engineer.

By direction of the Supervising Engineer.

Respectfully,

CC:CE
CC:DE
CC:Desk 2D.

Assistant Superintendent
of Project Management.

F. J. KIRCHHOF CONSTRUCTION CO.

SEVENTH AND LAWRENCE STREETS

DENVER, COLORADO

TELEPHONE MAIN 5314

February 14, 1936

Procurement Division
Public Works Branch
Treasury Department
Mr. James D. Owens, C. E.
U. S. Mint,
Denver, Colo.

Dear Sir:

We enclose herewith three copies of a certificate covering the building lines and columns center and three copies of a certificate covering the elevation of footings on the U. S. Mint, Denver, Colorado.

These certificates have been prepared by Mr. Jay W. McCullough, licensed Civil Engineer.

Yours very truly,

F. J. KIRCHHOF CONSTRUCTION CO.

By *G. B. Polson Jr.*

GRFWS

PW-SR-6-B

James D. Owens
U. S. Mint, Denver.

Supervising Engineer,
Public Works Branch,
Procurement Division,
Washington, D. C.

Sir:

Referring to the contract with the F.J.Kirchoff Construction Co. for construction of the Mint Addition, Denver, and in compliance with Par. 48 of the specifications concerning surveys:

Herewith is a certificate from Jay W. McCullough, Civil Engineer, dated February 25, 1936, giving the floor elevations as he found them in the old part of the Building.

It is to be noted that the Basement Vault floor was found 10 hundredths of an inch lower than that given on the contract plans - while the Sub-basement checks within 4 hundredths.

Due to the basement floor being 10 hundredths lower than that given and the column clearance being governed by the basement ceiling, the sub-basement grillage beams and floor had to be lowered in like amount in order to install steel wall columns as designated.

This lowered elevation affects the extended part of the Vault in the same way, therefore the sub-basement columns in the extended part will have to be lowered to elevation 42.82.

Provision has been made for this difference and adjustment of the Elevator door and lobby floor at the sub-basement level.

Yours very truly,

James D. Owens

Construction Engineer.

JAY W. McCULLOUGH
CIVIL ENGINEER
MAJESTIC BUILDING
DENVER, COLORADO

C O P Y

February 25, 1936

Re: U. S. Mint, alteration and addition
Denver, Colorado

F. J. Kirchhof Construction Company
7th & Lawrence Streets
Denver, Colorado

Gentlemen:

This is to certify that to the best
of my knowledge and belief the elevations mentioned
below are correct:

Location	Elevation
1 - Basement Vault floor -----	50.50
2 - Sub-basement Vault Floor -----	41.96
3 - Top of grillage beams -----	42.88
4 - Elevator sill at corridor from present entrance to basement Vault floor -----	50.44
5 - Floor of Coinage Room -----	62.58

Respectfully submitted,

Jay W. McCullough
Jay W. McCullough

JW:R

F.J. KIRCHHOF CONSTRUCTION CO.

SEVENTH AND LAWRENCE STREETS

DENVER, COLORADO

TELEPHONE MAIN 5314

February 26, 1936

Procurement Division
Public Works Branch
Treasury Department
Mr. James D. Owens, C. E.
U. S. Mint,
Denver, Colo.

Dear Sir,

We are enclosing herewith four copies of a certificate prepared by Mr. Jay W. McCullough, Civil Engineer, certifying to certain elevations on the U. S. Mint, Denver in accordance with the specifications for the same.

Trusting these are satisfactory, we are

Yours very truly,

F. J. KIRCHHOF CONSTRUCTION CO.

By

G. B. Olson Jr.

GBF*S

cc - Mr. Kaufman

Surveys & Landscape work-

Denver, Colo. U.S. Mint,

Denver, Colo.
Jan. 27 th- 1936

James D. Owens,
U.S. Mint, Denver,

Messrs F.J. Kirchoff Construction Co.,
Denver, Colo.
700- Lawrence St.,

Gentlemen:

In reference to outside Engineer's
Certificate of Nov. 19 th- 1935 giving the
elevations of bottoms of footings for the
Denver Mint Extension.

The public Works Branch, of the
Procurement Division, request me to have said
certificate and all other certificates to be
submitted, revised and to conform to the fol-
lowing.

"Statethat the elevations or lines,
as the case may be, are in every respect accord-
ing to the plans". Should he have any variance state
the extent and where it take place.

Will you therefore, obtaining a
revised certificate of Nov. 19th- 35 in accordance
with above wording and forward to me at your
earliest convenience and oblige,

yours very truly,

James D.Owens,

Construction Engineer,

DENVER, COLO., MINT.



TREASURY DEPARTMENT
WASHINGTON

PROCUREMENT DIVISION
PUBLIC WORKS BRANCH

IN REPLYING QUOTE THE ABOVE SUBJECT, BUILDING, AND THESE LETTERS PW- SE6-B

December 16, 1935.

Construction Engineer Owens,
United States Mint,
Denver, Colorado.

Sir:

Reference is made to Engineer's certificate of November 19th forwarded by your letter of November 20, giving the elevations of bottoms of certain footings of the extension to the Denver, Colorado, Mint.

The specifications do not require the certificates to give the elevations as built, but do require them to state the elevations or lines, as the case may be, are in every respect according to the plans.

You are therefore requested to submit a new certificate, and all other certificates to be submitted, accordingly.

By direction of the Supervising Engineer.

Respectfully,

Carl A. Fland
Assistant Superintendent of Project Management.

STRUCTURAL DESIGNS FOR
BRIDGES, BUILDINGS, PUBLIC
WORKS AND MISCELLANEOUS
STRUCTURES . . . REPORTS

JAY W. McCULLOUGH

CIVIL ENGINEER

MAJESTIC BUILDING

MUNICIPAL PUBLIC IMPROVEMENTS,
STREETS, WATER WORKS, SEWERS
AND SEWAGE DISPOSAL. LABORATORY
ANALYSES OF WATER AND SEWAGE

DENVER, COLORADO

February 11, 1936

F. J. Kirchhof Construction Co
7th & Lawrence Streets
Denver, Colorado

Re: Extension and Remodelling, U. S. Mint, Denver, Colo

Gentlemen:

This is to certify that the elevations
of the depths of the footings are in every respect
according to the plans, except as noted.

FOOTING NUMBER	ELEVATION OF BOTTOM OF FOOTING BY PLANS	ACTUAL (on site)	FEET LOWER THAN PLANS REQUIRE
E1	47.52	47.16	0.36
E2	47.02	47.00	.02
E3	47.02	46.84	0.18
E4	47.27	47.18	.09
E5	45.77	41.02	4.75
E6	47.27	59.94	7.33
E7	47.27	39.45	7.82
E8	47.02	47.00	.02
E9	47.02	46.72	.03
E10	47.52	47.41	.11
E11	47.02	40.83	6.19
E12	44.50	40.93	3.57
E13	44.60	41.07	3.53
E14	46.33	40.23	6.10
E15	48.27	47.18	1.09
E16	48.02	48.01	.01
E17	48.02	47.92	.10
*E18	48.27	47.27	1.00
E19	48.02	46.00	2.02

*Observed by Mr. Osborne, of Kirchhof Construction Co., and
Mr. Owens, U. S. Engineer.

To the best of my knowledge and belief the above
information is correct.

Respectfully submitted,

Jay W. McCullough
Jay W. McCullough

JWM:

Surveys-

Mint Addition- Denver, Colo.

Denver, Colo.
Nov. 20th. 1935-

PW-SE-

Supervising Engineer,
Public Works Branch,
Procurement Division,
Federal Warehouse,
Washington, D.C.

Sir-

Referring to the contract with the F.J. Kirchhof Construction Co., for construction of the Mint Addition, Denver, Colo. and in compliance with Par. 48 of the specifications concerning surveys.

Herewith is certificate rendered by contractor, signed by Mr. Jay W. McCullough, outside engineer, giving the bottom elevations of piers one to nineteen, inclusive, as determined by actual survey.

Under modification of the contract piers Nos.- E-5-6-7-11- 12-13-14-15 and 19 were lowered to the elevations given by survey to obtain suitable bearing.

Respectfully,

James D. Owens,

Construction Engineer,

STRUCTURAL DESIGNS FOR
BRIDGES, BUILDINGS, PUBLIC
WORKS AND MISCELLANEOUS
STRUCTURES . . . REPORTS

JAY W. McCULLOUGH

CIVIL ENGINEER

MAJESTIC BUILDING

DENVER, COLORADO

MUNICIPAL PUBLIC IMPROVEMENTS,
STREETS, WATER WORKS, SEWERS
AND SEWAGE DISPOSAL. LABORATORY
ANALYSES OF WATER AND SEWAGE

November 19, 1935

F. J. Kirchhof Construction Co
7th & Lawrence Streets
Denver, Colorado

RE: DEPTH OF FOOTINGS
Extension and Remodeling
United States Mint
Denver, Colorado

Gentlemen:

We herewith submit the following data regarding
the above mentioned job:

FOOTING NUMBER	ELEVATION OF BOTTOM OF FOOTING By Plans	Actual (on site)
E1	47.52	47.16
E2	47.02	47.00
E3	47.02	46.84
E4	47.27	47.18
E5	45.77	41.02
E6	47.27	39.94
E7	47.27	39.45
E8	47.02	47.00
E9	47.02	46.72
E10	47.52	47.41
E11	47.02	40.83
E12	44.50	40.93
E13	44.60	41.07
E14	46.33	40.23
E15	48.27	47.18
E16	48.02	48.01
E17	48.02	47.92
*E18	48.27	47.27
E19	48.02	46.00

*Observed by Mr. Osborne, of Kirchhof Construction Co., and
Mr. Owens, U. S. Engineer.

To the best of my knowledge and belief the above
information is correct.

Respectfully submitted,

Jay W. McCullough

